No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COMES

Arito-Tay Aorth America, Inc.

MICCOS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPERIISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT D BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

POTATO

'FL 1922'

In Testimone Mercet, I have hereunto set my hand and caused the seal of the Minut Unriety Protection Office to be affixed at the City of Washington, D.C. this fifth day of June, in the year two thousand and eight.

Attest:

Berzu

Commissioner Plant Varioty Protection Office Agricultural Murketing Service Solward To Schafe

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT V (Instructions and Information	ARIETY PROTE	ECTION CERTIF	ICATE	Application is re (7 U.S.C. 2421).	quired in order to determine if a p information is held confidential o	lant variety p Intil certificat	rotection certificate is to be issued e is issued (7 U.S.C. 2426).
1. NAME OF OWNER		·		1	2. TEMPORARY DESIGNATI EXPERIMENTAL NAME	ON OR	3. VARIETY NAME
Frito-Lay North Americ	ea, Inc.	lor DOM			1989 84.13		FL1922
4. ADDRESS (Street and No., or R.F.D. No.,					5. TELEPHONE (include area	code)	FOR OFFICIAL USE ONLY
					972-334-3822	2	PVPO NUMBER
7701 Legacy Drive Plano, Texas 75024		ofulos.			6. FAX (Include area code) 972-334-5965		200200126
7. IF THE OVALED NAMED IS NOT A POPON	ONE ONE FORM OF	ppa/					FILING DATE
 IF THE OWNER NAMED IS NOT A "PERS ORGANIZATION (corporation, partnership, Corporation 	ON", GIVE FORM OF association, etc.)	i	corporat E of Incol Laware	ED, GIVE RPORATION	9. DATE OF INCORPORATION 8/8/89	М	2002/03/29
10. NAME AND ADDRESS OF OWNER REPI	RESENTATIVE(S) TO S	ERVE IN THIS APPLICA	TION. (First	person listed will re	<u> </u>		FILING AND EXAMINATION
Robert J. Jondle, Esqui P.O. Box 1522 Jondle & Associates, P 858 Happy Canyon Ro Castle Rock, CO 80108	re .C. ad, Suit 230						E DATE 02/03/29 CERTIFICATION FEE:
			Ļ	MC 122.	05		S 768.00
11. TELEPHONE (Include area code)	12. FAX (Include area	ı code)	13. E-MA	•		14 CROE	KIND (Common Name)
402-333-1550	402-333-1		1.		hwellfigg.com	_	otato
15. GENUS AND SPECIES NAME OF CROP			16. FAM	IILY NAME (Botanic	cal)	17. IS TH	E VARIETY A FIRST GENERATION D?
Solanum tuberosum		•	So:	lanaceae		_	D? ☐ YES 🏋 NO
18. CHECK APPROPRIATE BOX FOR EACH reverse) a.	History of the Variety	TED (Follow instructions	s on		OWNER SPECIFY THAT SEED (SEED? See Section 83(a) of YES (If "yes", answer ilems 20 and 21 below)		RIETY BE SOLD AS A CLASS OF riety Protection Act) NO (If *no*, go to item 22)
c. Exhibit C. Objective Description d. Exhibit D. Additional Description e. Exhibit E. Statement of the Bas	of the Variety (Optional is of the Owner's Owner	ship	·	VARIETY BE	OWNER SPECIFY THAT SEED (LIMITED AS TO NUMBER OF (CH CLASSES? FOUND)	LASSES?	☐ YES ☐ NO REGISTERED ☐ CERTIFIED
f. Voucher Sample (2,500 viable u verification that tissue culture wi repository)	ntreated seeds or, for tu Il be deposited and main	ber propagated varieties tained in an approved po	i, ublic	21. DOES THE C	OWNER SPECIFY THAT SEED OF COMMERCORY	F THIS	NS? NO
g. Fillng and Examination Fee (\$2) States' (Mall to the Plant Variety	705), made payable to ** Protection Office)	Treasurer of the United		IF YES, SPE NUMBER 1,2	CIFY THE FOUNDATION	ON _	REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HAIF FROM THIS VARIETY BEEN SOLD, DISPLANT OTHER COUNTRIES? 1,0001 EN TH	RVESTED MATERIAL) (DSED OF, TRANSFERR & U.S.	OR A HYBRID PRODUC ED, OR USED IN THE (ED J. S. OR	23. IS THE VARI PROPERTY	ETY OR ANY COMPONENT OF RIGHT (PLANT BREEDER'S RIC	THE VARIE SHT OR PAT	TY PROTECTED BY INTELLECTUAL ENT/?
YES TO YES YOU MUST PROVIDE THE DATE OF FACH COUNTRY AND THE CIRCUIT	II NO	OSITION, TRANSFER, (e space indicated on rev	OR USE	IF YES, PLEA	YES ASE GIVE COUNTRY, DATE OF I NUMBER, <i>(Please use space l</i> i	FILING OR I	NO SSUANCE AND ASSIGNED everse.)
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cult. The undersigned owner(s) is(are) the owner and is entitled to protection under the provious owner(s) is(are) informed that false representations.	or of this sexually reprodu sions of Section 42 of the	uced or tuber propagated a Plant Variety Protection	d plant variei n Act.	ty, and believe(s) th			
SIGNATURE OF OWNER	< 0			SIGNATURE OF	OWNER		
Mones of.	Ther	<u></u>		·			
NAME (Please print or type) Thomas P. Schur				NAME (Please pr	int or type)		e e
CAPACHYORTHLE Secretary, Recot, Inc		DATE (9 MAR)	50	CAPACITY OR TI	ITLE		DATE

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreated seeds, or for tuber reproduced varieties verification that a viable *lin the sense that it will reproduce an entire plant!* tissue culture will be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.175 of the Regulation: and Rules of Practice.) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 1030: Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are sel explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.

Plant Variety Protection Office Telephone: (301) 504-5518

#200200126

ПЕМ 16а.

Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method:
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 16b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
- 17. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See P.L. 103-349 for additional information.)
- 20. See Sections 41, 42 and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131) 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USBA, Room 293, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to everage 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gethering and meintaining the data needed, and completing and reviewing the collection of information. Sand comments regarding this burden estimate or any other espect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0681-0068), Washington, DC 20503.

Date and Place of First Sale of FL 1922

'FL 1922' was first sold in the United States in April 2001.

Exhibit A: Origin and Breeding History of the Variety

FL 1922 originated in the Frito-Lay, Inc. private potato breeding program. The variety is the result of classical hybridization breeding. No gene insertion was involved in the breeding of FL 1922 or its parents. In 1988, Dr. Martin Cipar mad a cross at the Frito-Lay Research facility near Rhinelander, Wisconsin between the varieties FL 1533 and FL 1207. FL 1533 was chosen as a breeding parent because of its high yields, nice chip color off the field and out of mid-season storage and resistance to hollow heart disorder. FL 1533 also tolerates drought conditions and therefore can be grown in non-irrigated areas. FL 1207 was chosen as a breeding parent because it provides excellent transmission of long term storage color.

Seeds from the cross FL 1533 x FL 1207 were sown in the greenhouse near Rhinelander in the summer of 1988 and the resulting tubers were harvested in late fall of that year. Seedling tubers were planted in the field in the spring of 1989. One of the selections from this progeny was given the designation "1989 84.13". This selection was tested for four years in the fields near Rhinelander, with solids measurements and potato chip fry samples taken after each harvest. 1989 84.13 was found to process well from storage and possesses good resistance to common scab, as observed overall several years in areas with high scab pressure in Nebraska and Wisconsin. FL 1922 us an early to mid-season chipping variety with white fleshed, round to oval tubers. Its outstanding attributes are excellent chip appearance, with good flavor and resistance to common scab.

In 1995, 1989 84.13 was given the name "FL 1922". It was tested in replicated trials conducted by Frito-Lay, Inc. in Nebraska and Wisconsin. The chip appearance, manufacturing efficiency and consumer acceptability have been equal or superior to checks.

FL 1922 was observed for 6 generations in 12 locations and was determined to be genetically uniform and stable from generation to generation with no evidence of variants.

Tissue culture plantlets of FL 1922 were established in 1991 and are maintained at the Frito-Lay Research facility near Rhinelander, Wisconsin with a duplicate maintained by the Wisconsin Seed Potato Certification Program in Madison.

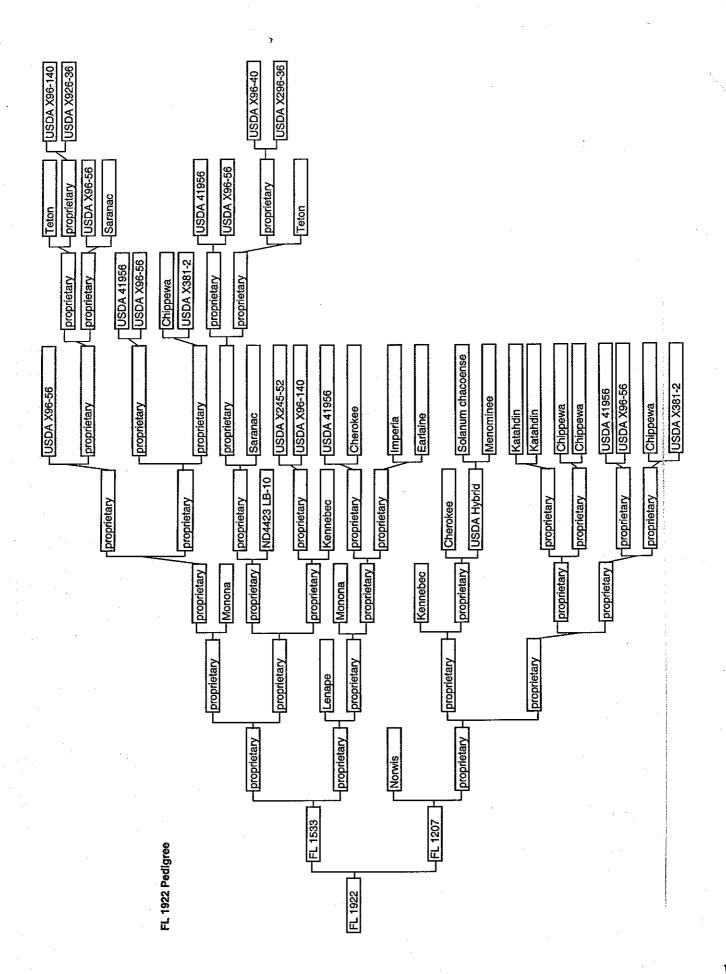
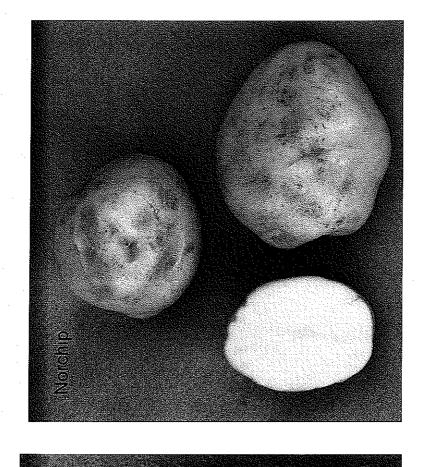


Exhibit B: Statement of Distinctness

As a chipping variety for fresh use from mid and late season harvests and use out of storage, FL 1922 is most similar to Norchip. FL 1922 can be distinguished from Norchip with regard to the following traits: FL 1922 has tubers with blue eyes (RHS 81A) while Norchip does not (pigmentation is absent in the eyes). FL 1922 has a spreading growth habit, while Norchip has a semi-erect growth habit. FL 1922 has purple flowers (RHS 90B), while Norchip has white flowers (RHS 155A). FL 1922 has medium anthocyanin pigmentation of the stem (RHS 79B), while Norchip lacks stem anthocyanin pigmentation. Additionally, the tuber flesh color of FL 1922 is a lighter yellow-white (RHS 158B), while the tuber flesh color of Norchip is a darker yellow-white (RHS 158A).

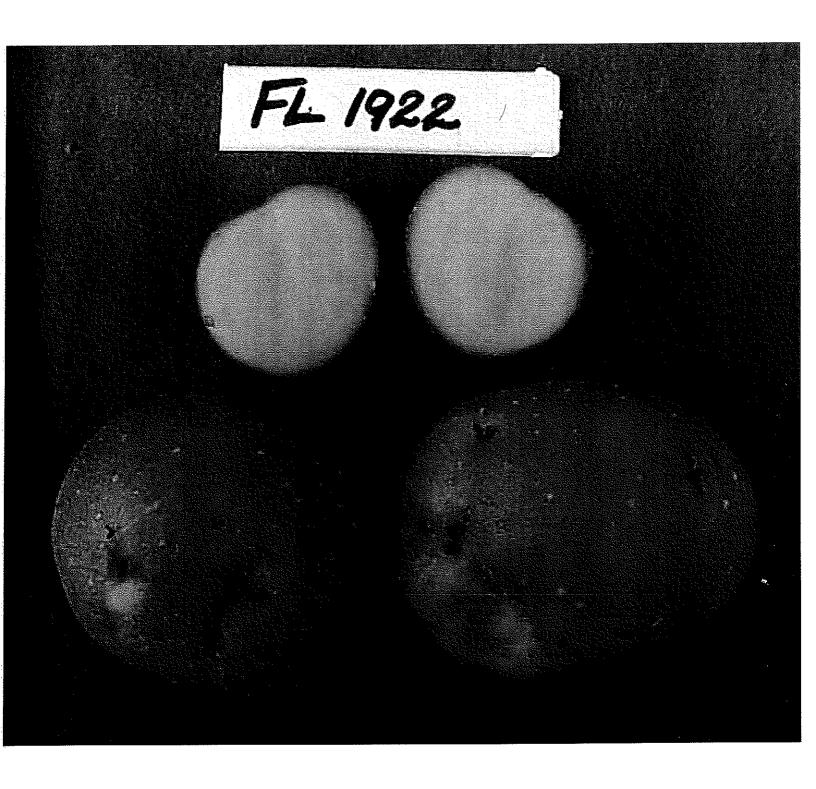
Isozyme patterm for FL 1922, as established by Dr. David Douches of Michigan State University is unique among known North American Varieties. This is detailed in Exhibit D-1, Additionall Description of the Variety.



Secondary skin color in eyes RHS # 81A

Tuber flesh color RHS#158B, white

Secondary skin color absent Tuber flesh color RHS#158A, white



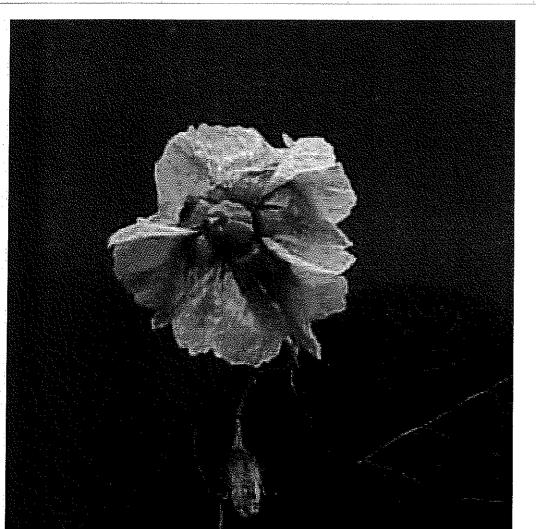


RHS # 155A

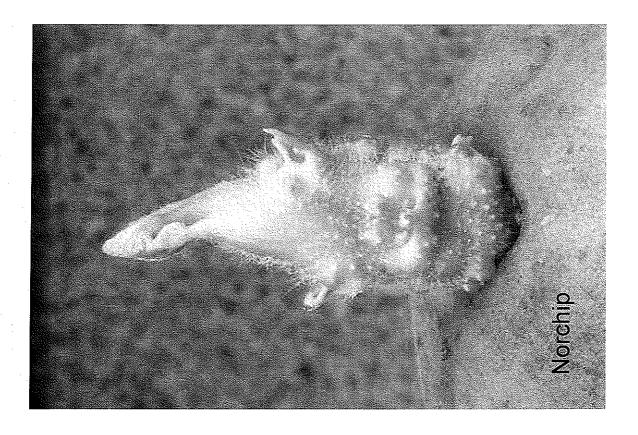


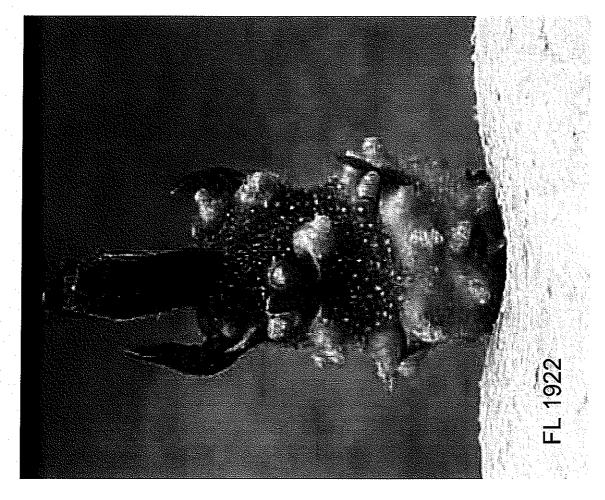
RHS # 90B

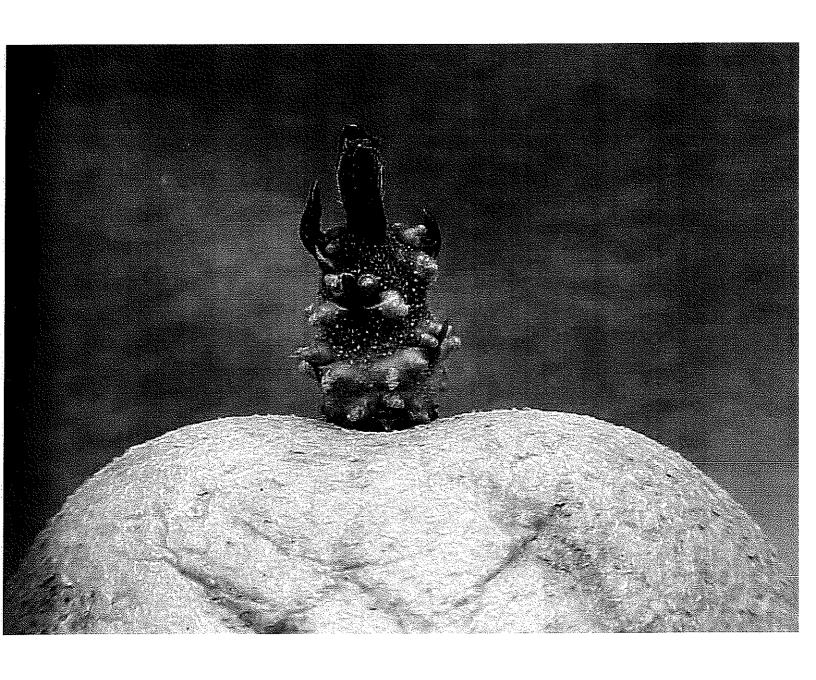


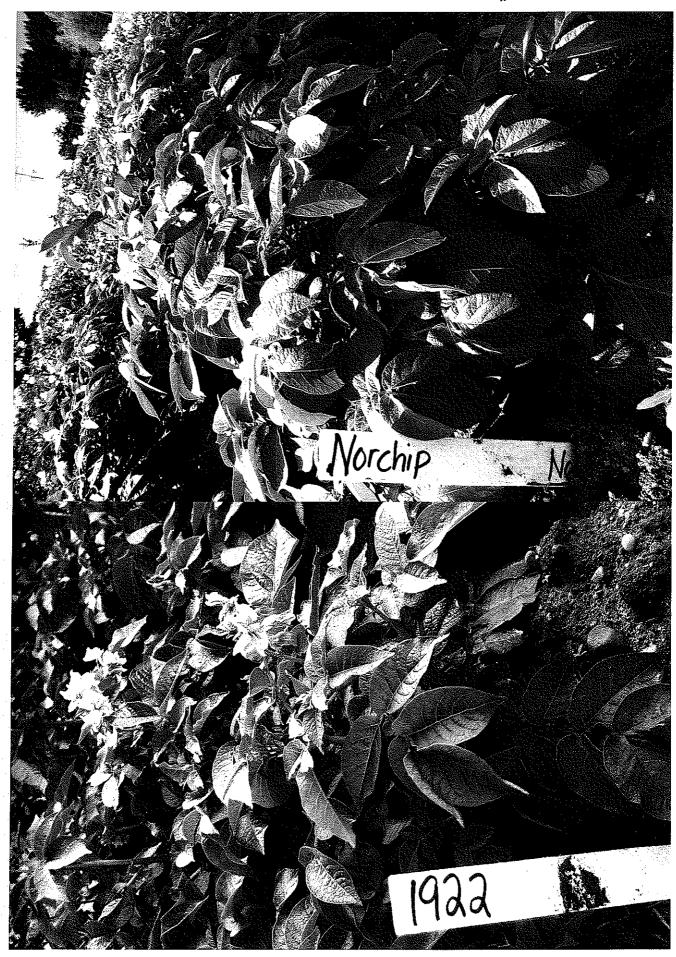


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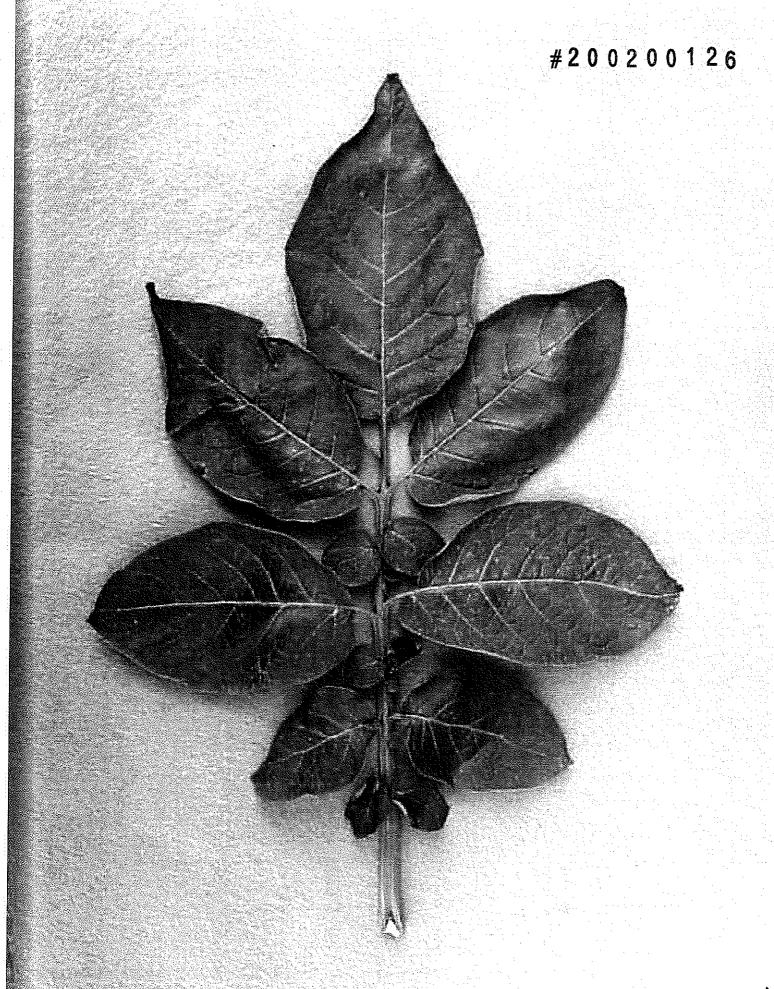








14



REPRODUCE LOCALLY. Include form number and date on reproductions

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION PLANT VARIETY PROTECTION OFFICE

EXHIBIT C OBJECTIVE DESCRIPTION OF VARIETY POTATO (Solanum tuberosum L.)

Public reporting burden for this collection of information is estimated to average __minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the form. Send comments regarding this burden estimate or any other aspects of this collection of information, including suggestions for reducing this burden, to USDA, OIRM, Clearance Officer, AG Box 7630, Washington, DC 20250, regarding OMB No. 0581-0055. When replying, refer to OMB number and form number you your letter.

INSTRUCTIONS

The Objective Description Form:

The objective description form lists characteristics to be used as the basis for developing the description of potato varieties. It is designed to guide the applicant in describing a variety in detail so a meaningful comparison with other potato varieties can be accomplished. It is recommended that this form be completed in as much detail as possible to ensure an accurate description. Please fill in the requested data and place the appropriate number that describes the varietal characters typical of this potato variety and the reference varieties in the respective boxes.

Test Guidelines:

Any statistical and trial (field test) data that may be necessary to support the variety description should be attached to this form. Please include for trial data the plot size, number of replications, number of plants, plant spacing, trial locations and growing periods. Trials should normally be conducted at one place, in the region that the variety has been adapted for, with a minimum of one growing period in the United States. All comparative data should be determined from varieties entered in the same trials. The size of the plots should be such that plants or parts of plants may be removed for measuring and counting without prejudice to the observations which must be made at the end of the growing period. As a minimum, each test should include a total of 60 plants which should be divided between two or more replicates. Separate plots for observation and measuring can only be used if they have been subject to similar environmental conditions. To determine color for a plant or plant parts a recognized standard color chart must be used such as the Royal Horticultural Society (R.H.S.) Color Chart.

Reference Varieties:

The application variety should be compared to at least one reference variety preferably a set of reference varieties. The reference varieties should be market class standard varieties currently grown in the United States and or the variety(ies) most similar. The following varieties are recommended as market class standards to be used as reference varieties:

Yellow-flesh table-stock	Yukon Gold
Round-white table-stock	Superior
Chip-processing	Atlantic, Snowden, Norchip
Frozen-processing	Russet Burbank
Russet table-stock	Russet Burbank, Russet Norkotah, Goldrush
Red table-stock	Red Pontiac, Red Norland, Red Lasoda

If the applicant does not use one of the recommended reference varieties the PVP office may not have a complete description for the reference variety used; therefore the applicant may have to supply this description by completing an Exhibit C form for the reference variety.

Characteristics:

The plant type and growth habit characteristics are collected at early first bloom. Figure 1 is supplied to help visualize the growth habit. For this descriptor, look at the stems rather than the stems and foliage. Plant maturity is measured at natural vine senescence.

Stem characteristics are also collected at early bloom. Stem anthocyanin coloration is divided into two descriptors: Location and intensity. Figure 12 is supplied to give an example of stem wings.

STD-476 (01-96)

Leaf characteristics are observed at early first bloom. Fully-developed leaves located on the middle third of the plant should be used. Leaf pubescence refers to general trichomes. Figure 2 is supplied for examples of leaf silhouette. Figure 3 should be used to describe terminal and primary leaflet shape. Figures 4 and 5 are used to describe the terminal and primary leaflet shape of tip and base, respectively. To measure the total number of primary leaflets pairs, collect 10 fully- developed petioles (with leaves attached from each replication and take the average number of secondary and tertiary leaflets. Figure 11 is supplied to define leaf characteristics. Glandular trichomes should be described through descriptor #12 (Additional Comments and Characteristics). Leaf stipules are shown in figure 13 for visual definition.

Inflorescence characteristics should be measured at early first bloom. Figures 6 and 7 are supplied to describe corolla and anther shape, respectively. Corolla, calyx, anther, stigma and pollen should be observed on newly opened flowers.

Berry production should be based on field-grown plants rather than greenhouse plants.

Tuber characteristics should be observed following harvest. Figures 9 and 10 are available to describe distribution of secondary color and tuber shape, respectively.

Disease and pest reactions should be based upon specific tests rather than field observations. Other diseases or pests reactions not requested can be described if it is felt that it would be helpful to the description.

Quality characteristics should be described according to the market use.

If the plant is transgenic, this gene insertion(s) should be described.

Chemical identification and any other characteristics can be describe if they are helpful in distinguishing the variety.

A rating system of 1-9 provides a scale for describing most characteristics in this form. Characteristic may be rated with intermediate values where the characteristic grades gradually from one extreme to another. For example, if the character states are described as: 3 = Small; 5 = Medium; 7 = Large; the other values of 1, 2, 4, 6, 8, or 9 may be selected.

Legend:

V = Application Variety

R1-R4 = Reference Varieties

* = Both the reference variety(ies) and application variety must be described for characteristics designated with an asterisk.

NAME OF APPLICANT (S)		TEMPORARY OR EXPERIMENTAL DESIGNAT	TION	VARIETY NA	ME		-	iibit C (Pot
Frito Lay North Ame	erica, Inc.	1989 84.13		FL 19	922			
ADDRESS (Street and No. or RD No., Ci	· · · · · · · · · · · · · · · · · · ·			FOR OFFICIA	L USE ON	LY	1000	
7701 Legacy Dri Plano, TX 75024				PVPO NUMB		_	_	
11410, 111, 502.	•			#20	0 2	0	0	1 2
REFERENCE VARIETIES: Ente	er the reference variety nam	e in the appropriate box						
Application Variety (V)	Reference Variety 1 (R1)		Reference Variety	3 (R3)	Refere	nce V	ariety	4 (R4)
FL 1922	Norchip					,		
PLEASE READ ALL INSTRU	UCTIONS CAREFULLY:							
1. MARKET CHARACTERISTIC	CS:							
*MARKET CLASS:	satock 2 - Round white To	blestock 3 = Chip-processing 4 =	Erozon progening					
5 = Russet Tablestock		biestock 3 – Only-processing 4 –	Prozen-processing					
V	R1 2	R2 R3	R4					
V 3	K1 3	10						
2. LIGHT SPROUT CHARACTE	ERISTICS: (See Figure 1)			•				
*LIGHT SPROUT: GE	ENERAL SHAPE							
*LIGHT SPROUT: GE	ENERAL SHAPE	= Broad cylindrica 5 = Narrow c	/lindrical 6 = Othe	er				
*LIGHT SPROUT: GE 1 = Spherical 2 =	ENERAL SHAPE Ovoid 3 = Conica 4	= Broad cylindrica 5 = Narrow cy	/lindrical 6 = Othe	er				_
*LIGHT SPROUT: GE 1 = Spherical 2 =	ENERAL SHAPE Ovoid 3 = Conica 4			er				
*LIGHT SPROUT: GE 1 = Spherical 2 =	ENERAL SHAPE Ovoid 3 = Conica 4 R1 3 SE: PUBESCENCE CE-TIP			er				_
*LIGHT SPROUT: GE 1 = Spherical 2 = V 4 *LIGHT SPROUT BAS 1 = Absent 2 = We	ENERAL SHAPE Ovoid 3 = Conica 4 R1 3 SE: PUBESCENCE OF THP eak 3 = Medium 4	R2 R3 R3 = Strong 5 = Very Strong	R4	er				
*LIGHT SPROUT: GE 1 = Spherical 2 = V 4 *LIGHT SPROUT BAS	ENERAL SHAPE Ovoid 3 = Conica 4 R1 3 SE: PUBESCENCE CE-TIP	R2 R3		er				
*LIGHT SPROUT: GE 1 = Spherical 2 = V 4 *LIGHT SPROUT BAS 1 = Absent 2 = Wo V 3 *LIGHT SPROUT BAS	ENERAL SHAPE Ovoid 3 = Conica 4 R1 3 SE: PUBESCENCE CF-TIP eak 3 = Medium 4 R1 4 R1 4 SE: ANTHOCYANIN COLO	R2 R3 = Strong 5 = Very Strong R2 R3	R4	er				
*LIGHT SPROUT: GE 1 = Spherical 2 = V 4 *LIGHT SPROUT BAS 1 = Absent 2 = We V 3	ENERAL SHAPE Ovoid 3 = Conica 4 R1 3 SE: PUBESCENCE CALTUP eak 3 = Medium 4 R1 4 R1 4	R2 R3 = Strong 5 = Very Strong R2 R3	R4	er				
*LIGHT SPROUT: GE 1 = Spherical 2 = V 4 *LIGHT SPROUT BAS 1 = Absent 2 = Wo	R1 3 SE: PUBESCENCE CF-TIP eak 3 = Medium 4 R1 4 R1 4 SE: ANTHOCYANIN COLO -violet 3 = Blue-violet	R2 R3 = Strong 5 = Very Strong R2 R3	R4	er				
*LIGHT SPROUT: GE 1 = Spherical 2 = V 4 *LIGHT SPROUT BAS 1 = Absent 2 = Wo V 3 *LIGHT SPROUT BAS 1 = Green 2 = Red- V 3	ENERAL SHAPE Ovoid 3 = Conica 4 R1 3 SE: PUBESCENCE CF-TIP leak 3 = Medium 4 R1 4 R1 4 SE: ANTHOCYANIN COLO lead 3 = Blue-violet R1 2 SE: INTENSITY OF ANTHO	R2 R3 = Strong 5 = Very Strong R2 R3 RATION 4 = Other(describe)	R4 R4	er				
1 = Spherical 2 = V 4 *LIGHT SPROUT BAS 1 = Absent 2 = Will V 3 *LIGHT SPROUT BAS 1 = Green 2 = Red- V 3 *LIGHT SPROUT BAS	ENERAL SHAPE Ovoid 3 = Conica 4 R1 3 SE: PUBESCENCE OF THE Peak 3 = Medium 4 R1 4 R1 4 SE: ANTHOCYANIN COLO-violet 3 = Blue-violet R1 2 SE: INTENSITY OF ANTHOCEAK 3 = Medium 4 =	R2 R3 RATION 4 = Other(describe) R2 R3 RATION 4 = Other(describe) R3 CYANIN COLORATION (IF PRESEI	R4 R4	er				

R3

R2

R4

R1

1

2

SPROUT CHARACTERISTICS: (continued)		" L O O L O O : _ :	Exhi
V 3	LIGHT SPROUT TIP: PUBESCENCE		
LIGHT SPROUT TIP ANTHOCYANIN COLORATION 1 = Green 2 = Red-violet 3 = Blue-violet 4 = Other(describe) V 3 R1 1 R2 R3 R4 LIGHT SPROUT TIP: INTENSITY OF ANTHOCANIN COLORATION (IF PRESENT) 1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong V 5 R1 1 R2 R3 R4 LIGHT SPROUT TIP: INTENSITY OF ANTHOCANIN COLORATION (IF PRESENT) 1 = Absent 2 = Medium 3 = Long V 5 R1 1 R2 R3 R4 LIGHT SPROUT ROOT INITIALS: PREGUENTSY LEASCATH 1 = Short 2 = Medium 3 = Long V 2 R1 1 R2 R3 R4 CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (-45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 R4 TYPE: 1 = Siem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage closed, stems hardly visible) V R1 R2 R3 R4 MATURITY: Days after planting (DAP) at vine senescence V R1 R2 R3 R4 REGIONAL AREA: 1 = Pacific North West (WA, OR, ID, CO, CA) 2 = North Central (ND, WI, MI, MN, OH) 3 = North East (ME, NY, PA, NJ, MD, MA 6 = Canada 1 = Europe 8 = England 9 = Latin America 10 = Brazil 11 = Other	1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong		
1 = Green 2 = Red-violet 3 = Blue-violet 4 = Other(describe)	V 3 R1 3 R2 R3	R4	
LIGHT SPROUT TIP: INTENSITY OF ANTHOCANIN COLORATION (IF PRESENT) 1 = Absent			
1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong V	V 3 R1 1 R2 R3	R4	
LIGHT SPROUT ROOT INITIALS: ENERGHENCY LEAGTT-A 1 = Short	LIGHT SPROUT TIP: INTENSITY OF ANTHOCANIN COLORATION (IF PRESENT) 1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong		
1 = Short 2 = Medium 3 = Long V 2 R1 1 R2 R3 R4 CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 R4 TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage closed, stems hardly visible) V R1 R2 R3 R4 MATURITY: Days after plantling (DAP) at vine senescence V R1 R2 R3 R4 PLANTING DATE: V R1 R2 R3 R4 R4 REGIONAL AREA: = Pacific North West (WA, OR, ID, CO, CA) 2 = North Central (ND, WI, MI, MN, OH) 3 = North East (ME, NY, PA, NJ, MD, MA 6 = Canada 11 = Other	V 5 R1 1 R2 R3	R4	
CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading			
Regional Area: Pacific North West (WA, OR, ID, CO, CA) 2 = North Central (ND, WI, MI, MN, OH) 3 = North East (ME, NY, PA, NJ, MD, MA 6 = Canada 7 = Europe 8 = England 9 = Latin America 10 = Brazil 11 = Other 11 = Other 12 12 13 14 15 15 16 16 16 16 16 16	V 2 R1 R2 R3	R4	
Regional Area: Pacific North West (WA, OR, ID, CO, CA) 2 = North Central (ND, WI, MI, MN, OH) 3 = North East (ME, NY, PA, NJ, MD, MA 6 = Canada 7 = Europe 8 = England 9 = Latin America 10 = Brazil 11 = Other 11 = Other 12 12 13 14 15 15 16 16 16 16 16 16	1 1 1 1	104	
TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage closed, stems hardly visible) R1 R2 R3 R4 MATURITY: Days after planting (DAP) at vine senescence V R1 R2 R3 R4 PLANTING DATE: V R1 R2 R3 R4 PLANTING DATE: V R1 R2 R3 R4 R4 REGIONAL AREA: 1 = Pacific North West (WA, OR, ID, CO, CA) 2 = North Central (ND, WI, MI, MN, OH) 3 = North East (ME, NY, PA, NJ, MD, MA 6 = Canada 4 = Europe 8 = England 9 = Latin America 10 = Brazil 11 = Other		[K4]	
The Stem (foliage open, stems clearly visible) Results to the stems (foliage open, stems clearly visible) Results to the stems (foliage closed, stems hardly visible) Results to the stems (Foliage closed, stems hardly visible) Results to the stems (Foliage closed, stems hardly visible) Results to the stems (Foliage closed, stems hardly visible) Results to the stems hardly visible to the stems	CHARACTERISTICS: GROWTH HABIT: (See Figure 2)	[K4]	
WATURITY: Days after planting (DAP) at vine senescence V R1 R2 R3 R4 PLANTING DATE: V R1 R2 R3 R4 REGIONAL AREA: I = Pacific North West (WA, OR, ID, CO, CA) 2 = North Central (ND, WI, MI, MN, OH) 3 = North East (ME, NY, PA, NJ, MD, MA 6 = Canada 11 = Other Y = Europe 8 = England 9 = Latin America 10 = Brazil 11 = Other	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground)		
V	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3	R4	
PLANTING DATE: V REGIONAL AREA: I = Pacific North West (WA, OR, ID, CO, CA) I = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL) I = Europe S = England S = Latin America S = La	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage clearly visible)	R4	
REGIONAL AREA: I = Pacific North West (WA, OR, ID, CO, CA) I = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL) I = Europe 8 = England 9 = Latin America 10 = Brazil R3 R4 R4 R4 R5 R4 R5 R6 R7 R9 R1 R1 R1 R1 R1 R2 R3 R4	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) $3 = \text{Erect } (>45^{\circ} \text{ with ground})$ $5 = \text{Semi-erect } (30-45^{\circ} \text{ with ground})$ $7 = \text{Spreading}$ TYPE: $1 = \text{Stem (foliage open, stems clearly visible)}$ $2 = \text{Intermediate}$ $3 = \text{Leaf (Foliage open)}$	R4	
REGIONAL AREA: I = Pacific North West (WA, OR, ID, CO, CA) I = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL) S = South (LA, TX, AZ, NE) S = Europe S = England 9 = Latin America 10 = Brazil 11 = Other	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage of R) WATURITY: Days after planting (DAP) at vine senescence	R4	
REGIONAL AREA: I = Pacific North West (WA, OR, ID, CO, CA) I = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL) S = South (LA, TX, AZ, NE) S = Europe S = England 9 = Latin America 10 = Brazil 11 = Other	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage of R2) WATURITY: Days after planting (DAP) at vine senescence V R1 R2 R3	R4	
I = Pacific North West (WA, OR, ID, CO, CA)2 = North Central (ND, WI, MI, MN, OH)3 = North East (ME, NY, PA, NJ, MD, MAI = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL)5 = South (LA, TX, AZ, NE)6 = CanadaI = Europe8 = England9 = Latin America10 = Brazil11 = Other	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage of R) WATURITY: Days after planting (DAP) at vine senescence V R1 R2 R3 PLANTING DATE:	R4 closed, stems hardly visible) R4	
V R1 R2 R3 R4	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage of R) WATURITY: Days after planting (DAP) at vine senescence V R1 R2 R3 PLANTING DATE:	R4 closed, stems hardly visible) R4	
	CHARACTERISTICS: GROWTH HABIT: (See Figure 2) 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading V 7 R1 5 R2 R3 TYPE: 1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage of R3) MATURITY: Days after planting (DAP) at vine senescence V R1 R2 R3 PLANTING DATE: V R1 R2 R2 R3 PLANTING DATE: V R1 R2 R2 R3 PLANTING DATE: V R1 R2 R2 R3	R4 R4 R4 R4 R3 R4 CH) 3 = North East (ME, NY, PA, NJ, MD 6 = Canada), MA,

MATURITY CLASS:
1 = Very Early (<100 DAP) 2 = Early (100-110 DAP) 3 = Mid-season (111-120 DAP) 4 = Late (121-130 DAP) 5 = Very Late (>130 DAP).



R4

NAME OF APPLICANT(S)			FOR OFF	ICIAL USE ONLY
Frito-Lay North America	, Inc.		PVPO NUMBE # 2 U	R020012
ADDRESS (Street and No. or R	.F.D. No., City, State, and Zip C	Code)	VARIETY (V)	NAME
7701 Legacy Drive			FL 1922	
Plano, Texas 75024			TEMPORARY	OR EXPERIMENTAL
			DESIGNATION	N
			1989 84.1	1.3
REFERENCE VAR	IETIES: Enter the ref	erence variety na	ne in the ap	propriate box
Reference Variety 1 (R1)	Reference Variety 2 (R2)	Reference Variety 3	(R3) Refe	rence Variety 4 (R4)
Norchip				
1. MARKET CHARACTERIS	TICS:	<u> </u>		4
MARKET CLASS:				
1 = Yellow-flesh tables	ock; 2 = Round-white tablesto	ck; 3 = Chip-processing	: 4 = Frozen-nr	ocessing:
5 = Russet tablestock;	6 = Other	*	,,	
v 3	R1 3 R2	R3		R4
2. PLANT CHARACTERISTIC				
*				
GROWTH HABIT: (See 3 = Erect (>45° with a	rgure 1) pround); 5 = Semi-erect (30-45)	with ground); 7 = Spr	eading.	
v 7	R1 5 R2			
	RI 7 RZ	R3		R4
TYPE:				
1 = Stem (foliage open	stems clearly visible); $2 = Interest = Int$	ermediate; 3 = Leaf (Fo	liage closed, sten	ıs hardiy visible)
V 2	R1 3 R2	R3		R4
MATURITY: Days after p	slanting (DAP) at vine senescence	e		·
v 110 R	1 110 R2	R3		R4
	1 110			K4
PLANTING DATE:	ni 1 26 02			_
V April 26, 02 R1 A	oril 26, 02 R2	[R3]	R	4
REGION/AREA:				· · · · · · · · · · · · · · · · · · ·
V Central, WI R1 Ce	ntral, WI R2	R3	R	4
D-476 (01-96)				Page 3 of 19

v 2.	30th 415 R1 7	na		
10	ar KI Z	R2	R3	R4
STEM CHARACTE	ERISTICS: Measure at early	first bloom		
	ANIN COLORATION: = Weak; 5 = Medium; 7 =	= Strong; 9 = Very Stro	ng ·	
v 5	R1 1	R2	R3	R4
STEM WINGS: (S 1 = Absent; 3	Gee figure 12) = Weak; 5 = Medium; 7 =	= Strong; 9 = Very Stron	g	
V 5	R1 3	R2	R3	R4
LEAF CHARACTER	ISTICS:			
LEAF COLOR: (C	Observe fully developed leaves areen; 2 = Olive-green; 3 =	located on middle 1/3 of pla Medium green; 4 = Dan	nt) k green; 5 = Grey-green	n; 6 = Other
V 3	R1 3	R2	R3	R4
LEAF COLOR CH	ART VALUE: Royal Hortice ped leaves located on middle 1	ulture Society Color Char	t or Munsell Color Char	
LEAF COLOR CH	ART VALUE: Royal Hortice	ulture Society Color Char	t or Munsell Color Char	
LEAF COLOR CH. (Observe fully develor V 137A LEAF PUBESCENCE)	ART VALUE: Royal Hortice ped leaves located on middle 1 R1 137A	ulture Society Color Char 1/3 of plant & circle the app R2	t or Munsell Color Char ropriate color chart)	I
LEAF COLOR CH. (Observe fully develor V 137A LEAF PUBESCENCE)	ART VALUE: Royal Hortice ped leaves located on middle R1 137A CE DENSITY:	ulture Society Color Char 1/3 of plant & circle the app R2	t or Munsell Color Char ropriate color chart)	I
LEAF COLOR CH. (Observe fully develor V 137A LEAF PUBESCENC 1 = Absent; 2 = V 3	ART VALUE: Royal Horticiped leaves located on middle 1 R1 137A CE DENSITY: Sparse; 3 = Medium; 4 =	ulture Society Color Char 1/3 of plant & circle the app R2 Thick; 5 = Heavy R2	t or Munsell Color Charropriate color chart)	R4
LEAF COLOR CH. (Observe fully develor V 137A LEAF PUBESCENC 1 = Absent; 2 = V 3	ART VALUE: Royal Horticiped leaves located on middle 1 R1 137A EE DENSITY: Sparse; 3 = Medium; 4 = R1 4	ulture Society Color Char 1/3 of plant & circle the app R2 Thick; 5 = Heavy R2	t or Munsell Color Charropriate color chart)	R4
LEAF COLOR CH. (Observe fully develor V 137A LEAF PUBESCENC 1 = Absent; 2 = V 3 LEAF PUBESCENC 1 = None; 2 = S	ART VALUE: Royal Horticoped leaves located on middle 137A R1 137A CE DENSITY: Sparse; 3 = Medium; 4 = R1 4 CE LENGTH: Short; 3 = Medium; 4 = Lo	R2 R2 R2 R2 R2 R2 R2 R2	R3	R4 R4
LEAF COLOR CH. (Observe fully develor V 137A LEAF PUBESCENC 1 = Absent; 2 = V 3 LEAF PUBESCENC 1 = None; 2 = S V 2 (Note: Descriptor	R1 137A R1 137A CE DENSITY: Sparse; 3 = Medium; 4 = R1 4 ELENGTH: Short; 3 = Medium; 4 = Lo	R2 R2 R2 R2 R2 R2 R2 R2	R3	R4 R4

1 = Abs		YANIN COLO			= Very S	Strong			
V		R1	1	R2		R	3	R4	
	ent; 3 = Sn	: <i>(See figure</i> nall; 5 = Me		Large					
v -4		R1 -	6	R2		R	3	R4	
		VIO 199	responden	ce Fub22	2007				
1 = Narr	owly ovate;	SHAPE: (Second Second S	n ovate; 3	<i>z</i>	LM C 8.7-6 ovate; 4 =		te; 5 = Ell	liptical;	
v 2		R1 2	2	R2		R3		R4	
		TIP SHAPE:			se; 5 = O	ther	<u>.</u>		
v 3		R1 3	3	R2		R3		R4	
V 4	LEAFLET		AVINESS:	R2		R3		R4	
1 = Abser	t; 2 = Slig	ht; 3 = Wea	ık; 4 = Me	edium; 5 =	Strong				
V 3	.]	R1 2	2	R2		R3		R4	
NUMBER OF		LEAFLET	PAIRS: (S	ee figure 11)					***
V 4	<u>:</u>	R1 5	5	R2		R3		R4	
RANGE:		_				<u> </u>			_
4 to 4	R1	4 to	6 R 2	t to)	R3	to	R4 to	
PRIMARY LI 1 = Acute;		P SHAPE: (idate; 3 = A			; 5 = Ot	her	 .		
v 3		R1 3	3	R2		R3		R4	٦
	\					L			┚

	* PR	IMARY LEA	AFLET	SIZE:						· · · · · · · · · · · · · · · · · · ·
		1 = Very Sn	nall; 2	= Small;	3 = Med	lîum;	4 = Large; 5 =	= Very Lar	ge	
	v	3/4		R1	4 /Prin		R2 leaflets a		t3 e long	R4
	PRIM	ARY LEAF	LET SI	IAPE:	See figure	3 & 11)			
		6= Obovate;	7 = 0	blong; 8	B = Other	ie; 3 =	= broadly ovate	; 4 = Lan	ceolate; 5 = Ell	iptical;
		V 1]	R1	1		R2		R3	R4
	PRIM 1	IARY LEAF = Cuneate;	LET B <i>A</i> 2 = A	SE SHA	PE: (See) = Obtuse;	figure . 4 = (5 & 11) Cordate; 5 = T	runcate; (5 = Lobed; 7 =	Other
		V 4]	R1	4		R2		R3	R4
	NUMI	BER OF SEC	CONDA	RY ANI) TERTIA	RY LE	AFLET PAIRS	: (See figu	re 11)	
		VERAGE:			T .		Ţ.			
		7 3.5		R1	6		R2		R3	R4
RA	ANGE:					3 [<u> </u>	:		
V	2	to 7	R1	3 1	to 9	R2	to	R3	to	R4 to
5.	INFLO	PRESCENCE	E CHAR	RACTER	ISTICS:				<u> </u>	
,	NUMB	ER OF INFI	LORES	CENCE	/ PLANT:			-		
•	AV	ERAGE:								
	V	6		R1	23		R2		R3	R4
RA	NGE:							:		
V	3	to 9	R1	1 t	o 4	R2	to	R3	to	R4 to
1	(UMB)	ER OF FLO	RETS /	INFLOI	RESCENC	E:				
	ÄVI	ERAGE:		 			· · · · · · · · · · · · · · · · · · ·			
	v	6	į	R1	4		R2		R3	R4
RA	NGE:							.		
v	3	to 11	R1	2 t	0 8	R2	to	R3	to	R4 to
							LUE: Royal H			hart or Munsell Color Chart
Ĺ	v	90в		1 15	55A	R	2	R3		R4
TD-4	76 (01	-96)	" :					**		Page 6 of 19

** COROLLA OUTER SURFACE COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Measure predominant color of newly open flower & circle the appropriate color chart)

V 91A R1 155A R2 R3 R4

STD-476 (01-96)

Page 6.5 of 19

	INNER SURFACE COL ite; 2 = Red-violet; 3 =		nt color of newly open flowe	2r)
y 3 w/white tip	R1 1	R2	R3	R4
COROLLA 1 = Very	SHAPE: (See figure 6) y rotate; 2 = Rotate; 3 =	= Pentagonal; 4 = Semi-	stellate; 5 = Stellate	·
v 2	R1 3	R2	R3	R4
	THOCYANIN COLORA ant; 3 = Weak; 5 = Med	- - · ·	Very strong	
v 5	R1 1	R2	R3	R4
ANTHER CO	OLOR CHART VALUE: on newly opened flower is fi	Royal Horticulture Socieally expanded and circle th	ety Color Chart or Munsel e appropriate color chart)	l Color Chart
V 17B	R1 17B	R2	R3	R4
POLLEN PRO 1 = None;	R1 2/3 ODUCTION: 3 = Some; 5 = Abunda	R2	R3	R4
v	R1	R2	R3	R4
	APE: (See figure 8) tte; 2 = Clavate; 3 = Bi	-lobed	· · · · · · · · · · · · · · · · · · ·	
v 1	R1 1	R2	R3	R4
STIGMA COI (Circle the app	LOR CHART VALUE: F ropriate color chart)	Royal Horticulture Society	Color Chart or Munsell	Color Chart
146A	R1 146A	R2	R3	R4
	DUCTION: (Under field of 3 = Low; 5 = Moderate		heavy	
v 3	R1 3	R2	R3	R4
D-476 (01-96)		N.,		Page 7 of 19

1 = White; 2 = 9 = Purplish-re	SKIN COLOR: = Light Yellow; 3 = Yel d; 10 = Purple; 11 = 1	llow; 4 = Buff; 5 = 7 Dark purple-black; 12	Tan; 6 = Brown; 7 = Pir = Other	nk; 8 = Red;
v 4	R1 5	R2	R3	R4
PREDOMINANT S (Circle the appropri	SKIN COLOR CHART Vate color chart)	VALUE: Royal Hortic	ulture Society Color Char	t or Munsell Color Cha
V 161	R1 199B	R2	R3	R4
SECONDARY SKE 1 = Absent; 2 =	N COLOR: = Present, please describ	e: very light	blue eyes	
v 2	R1 1	R2	R3	R4
SECONDARY SKIN (Circle the appropria	N COLOR CHART VAL te color)	.UE: Royal Horticultu	re Society Color Chart or	Munsell Color Chart
v 8/A	R1 COLOR DISTRIBUTIO	R2	R3	R4
SECONDARY SKIN 1 = Eyes; 2 = E V 1	COLOR DISTRIBUTIO	ON:	R3 Spectacled; 6 = Stippled;	
1 = Eyes; 2 = E V 1 SKIN TEXTURE:	COLOR DISTRIBUTIOn yebrows; 3 = Splashed;	ON: 4 = Scattered; 5 = 1	Spectacled; 6 = Stippled;	7 = Other
1 = Eyes; 2 = E V 1 SKIN TEXTURE:	COLOR DISTRIBUTIOn yebrows; 3 = Splashed;	ON: 4 = Scattered; 5 = 1	Spectacled; 6 = Stippled;	7 = Other
1 = Eyes; 2 = E V 1 SKIN TEXTURE: 1 = Smooth; 2 = V 3 TUBER SHAPE: (See	Rough (flaky); 3 = Net	ON: 4 = Scattered; 5 = R2 tted; 4 = Russetted;	R3 R3 F = Heavily russetted; 6	7 = Other
1 = Eyes; 2 = E V 1 SKIN TEXTURE: 1 = Smooth; 2 = V 3 TUBER SHAPE: (See 1 = Compressed; V 2/3	R1 Rough (flaky); 3 = Net R1 Ri Ri Ri Ri Ri Ri Ri Ri Ri	ON: 4 = Scattered; 5 = 1 R2 Itted; 4 = Russetted; 1 R2 4 = Oblong; 5 = Lo	R3 R3 F = Heavily russetted; 6	7 = Other
1 = Eyes; 2 = E V 1 SKIN TEXTURE: 1 = Smooth; 2 = V 3 TUBER SHAPE: (Se 1 = Compressed; V 2/3 bers tend to be	Rough (flaky); 3 = Net Rough (flaky); 3 = Net R1 1 e figure 10) 2 = Round; 3 = Oval; R1 2/3 e narrower on the	ON: 4 = Scattered; 5 = 1 R2 Ited; 4 = Russetted; 4 R2 4 = Oblong; 5 = Lo R2 e stolon end.	R3 R3 R3 R3 R3 R3 R3 R3 R3 R3	7 = Other

STD-476 (01-96)

	TUBER LENGTH (mm):		•	
	AVERAGE:			
	v 69.4 R1 73.4	43 R2	R3	R4
RA	NGE:			
V	54 to 97 R1 51 to 13	14 R2 to	R3 to	R4 to
STA	ANDARD DEVIATION:			
V	9.21 R1 12.25	R2		R4
	AVERAGE WEIGHT OF SAMPLE 1 R1	AKEN:	R3	R4
	TUBER WIDTH (mm):			
	AVERAGE:			
	v 61.93 R1 65.49	R2	R3	R4
RAN	NGE:		: 	
$ \mathbf{v} $	49 to 74 R1 52 to 8	39 R2 to	R3 to	R4 to
STA	NDARD DEVIATION:		: •	
\mathbf{v}	_ 6.06 R1 7.84	R2	R3	R4
	AVERAGE WEIGHT OF SAMPLE TO	AKEN:	1	
İ	V R1	R2	R3	R4
			R3	R4
7	V R1		R3	R4
7	V R1 TUBER THICKNESS (mm):	R2	R3 R3	R4 R4
RAN	V R1 FUBER THICKNESS (mm): AVERAGE: V 53.39 R1 51.09 GE:	R2 R2		
RAN	V	R2 R2		
RAN V 4	V R1 FUBER THICKNESS (mm): AVERAGE: V 53.39 R1 51.09 GE:	R2 R2	R3	R4
RAN V 4	V	R2 R2	R3	R4
RAN V 4	V	R2 R2 to R2	R3 to	R4 to
RANV 4	V	R2 R2 to R2	R3 to	R4 to
RANV 4	V	R2 R2 R2 R2 R2 R2 R2 R2 R2 REN:	R3 to R3 R3	R4 to
RANV 4	V	R2 R2 R2 R2 R2 R2 R2 R2 R2 REN:	R3 to R3 R3	R4 to

1 = Protruding; 2 =	Shallow; 3 = Intermed	liate; 4 = Deep; 5 =	Very deep	
V 2	R1 2	R2	R3	R4
NUMBER EYE / TUBER AVERAGE:	R: .			
v 9	R1	R2	R3	R4
RANGE: V 8 to 10 R1	to	to	R3 to	R4 to
DISTRIBUTION OF TUE 1 = Predominantly api	BER EYES: ical; 2 = Evenly distrib	uted		
V 1	R1 1	R2	R3	R4
PROMINENCE OF TUBE 1 = Not prominent; 2		= Medium prominenc	e; 4 = Very prominent;	5 = Other
V 2	R1 3	R2	R3	R4
PRIMARY TUBER FL. (Circle the appropriate color Yellow-White	ESH COLOR CHART V	VALUE: Royal Hortico	ulture Society Color Char . & F2622, 2007	t or Munsell Color Char
	158A	R2 appears cleaner	R3 LMC 8.7-07	R4
SECONDARY TUBER FLI 1 = Absent; 2 = Present		-		
v	R1	R2	R3	R4
SECONDARY TUBER FLA (Circle the appropriate color	ESH COLOR CHART V	ALUE: Royal Horticu	lture Society Color Char	t or Munsell Color Chart
V	1 R	12	R3	R4
NUMBER OF TUBERS / P. 1 = Low (<8); 2 = Me		(>15)	:	
v 1	R1 1	R2	R3	R4

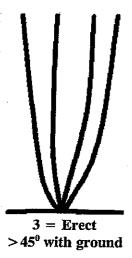
STD-476 (01-96)

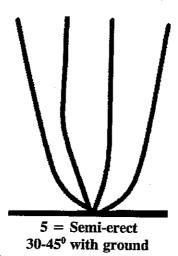
Page 10 of 19

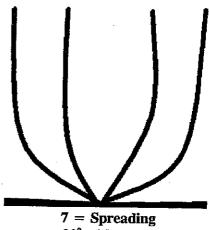
BACTERIAL RING			7=SUSCEPTIBLE; 9=H	- Joseph In
v	R1	R2	R3	R4
BACTERIAL RING	ROT, TUBER REAC	CTION:	J +	
v	R1	R2	R3	R4
LATE BLIGHT:			_ K5	R4
V V	R1	R2	R3	
DI DI GUILLO	<u> </u>	ICZ .	K	R4
PLRV (LEAF ROLL				. [
	R1	R2	R3	R4
PVX:				
V	R1	R2	R3	R4
PVY:		[
V	R1	R2	R3	R4
	cab (streptomy	rces scabies)		
v +3	R1 3-3	R2	R3	R4
OTHER:	ites fondance f	4 22, 2001 201		<u> </u>
v	R1	R2	R3	R4
STS CHARACTERIST	ICS:			<u> </u>
PEST REACTION: 0 =	NOT TESTED: 1	= RESISTANT: 3 - 1	MODERATELY RESIST.	A DITT
. 5 =	MODERATELY S	USCEPTIBLE; 7=SUS	SCEPTIBLE; 9=HIGHLY	SUSCEPTIBLE
GOLDEN NEMATOD		! ·		
V 0	R1 7	R2	R3	R4
OTHER: Both ar	e presumed sus	ceptible based	on their pedigree	s
V	R1	R2	R3	R4
NE TRAITS:		: I : I : t		
NSERTION OF GENES	i: [YES	□ NO	
f YES, describe the gene	L	<u>i </u>		
	, ,		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·	

CHIEF MARKET:	Processing to ma	ake potato chips	· · · · · · · · · · · · · · · · · · ·	
SPECIFIC GRAVIT 1 < 1.060; 2 = 1	Y (wt. air /wt. air - wt. v 1.060-1.069; 3 = 1.070-1	water) .079; 4 = 1.080-1.089;	5 > 1.090	
v 3	R1	R2	R3	R4
TOTAL GLYCOALI	KALOID CONTENT (mg	g. / 100 g. fresh tuber)		
v 1.39	R1	R2	R3	R4
OTHER QUALITY C (e.g. chip-processing, corresponding protoc ee exhibit D-1	CHARACTERISTICS: D french fry processing, bal ol.	escribe any other quality king, boiling, after-cooki	y characteristics that m ng darkening). Please	ay aid in identification
			:	
CHEMICAL IDENTIFI Describe chemical trai Please attach data and	CATION: its of the candidate variet I the corresponding proto	y that aid in its identifica	ation (e.g. protein or DI	NA electrophoresis).
Describe chemical trai Please attach data and	its of the candidate variet	y that aid in its identifica		NA electrophoresis).
Describe chemical trai	its of the candidate variet	y that aid in its identifica col.		NA electrophoresis).
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Describe chemical trai Please attach data and DDITIONAL COMME	its of the candidate variet the corresponding proto	RISTICS: pe useful in distinguishing	ation (e.g. protein or DI	

Figure 1: Growth Habit





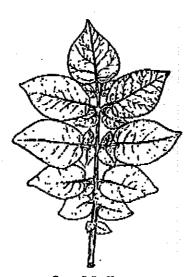


7 = Spreading <30° with ground

Figure 2: Leaf Silhouette







3 = Medium



5 = Open

Figure 3: Terminal Leaflet Shape / Primary Leaflet Shape



1=Narrowly Ovate



2=Medium Ovate



3=Broadly Ovate



4=Lanceolate



5=Elliptical



6=Obovate



7=Oblong

Figure 4: Terminal Leaflet Shape of Tip / Primary Leaflet Shape of Tip

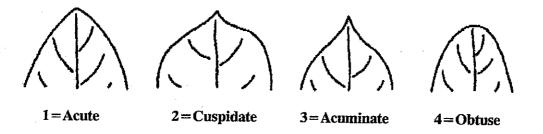


Figure 5: Terminal Leaflet Shape of Base / Primary Leaflet Shape of Base

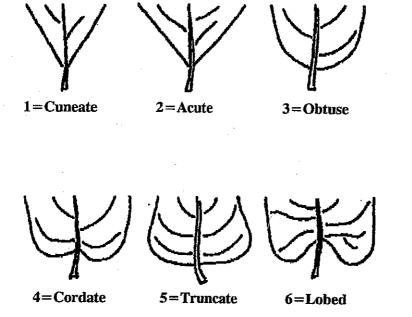
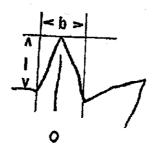


Figure 6: Corolla Shape





stellate !>b



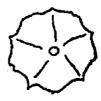
semi-stellate | = b



pentagonal l < b



rotate



very rotate

Figure 7: Anther Shape



1=Broad cone



2=Narrow cone



3=Pear shape cone



4=Loose

Figure 8: Stigma Shape





1=Capitate



2=Clavate



Figure 9: Distribution of Secondary Tuber Color



1=Eyes



2=Eyebrows



3=Splashed



4=Scattered



5=Spectacled



6=Stippled

Figure 10: Tuber Shape



1 = Compressed



2 = Round



3=Oval



4=Oblong



5=Long

Figure 11: Leaf Dissection

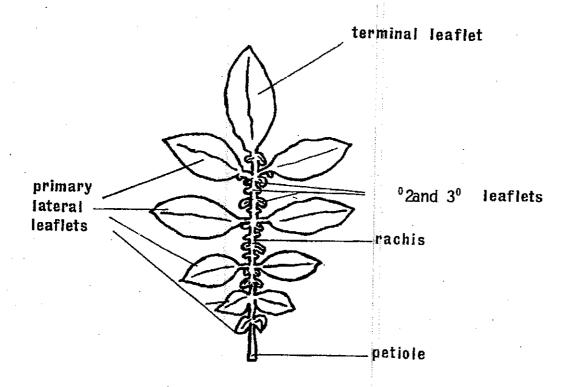


Figure: 12 Stem Wings

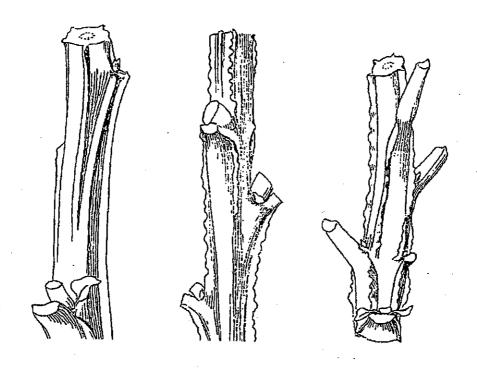


Figure 13: Leaf Stipules:

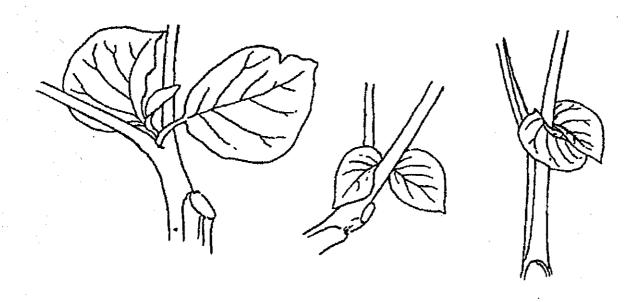


EXHIBIT D. Additional Description of the Variety

1) Isozyme fingerprint of FL 1922, with reference to methodology. Comparison of fingerprint with that of Norchip, showing distinct patterns for each variety (Exhibit D-1).

2) Summary of 100-tuber sample of tuber dimensions of FL 1922 compared to 100 tubers of Norchip.

EXHIBIT D-1

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Mdh-2 Pgdh-3 Idh-1 Pgi-1 Aps-1 Got-1 Got-2 Pgm-1 Pgm-2 Dia-1 Prx-1 Prx-3 Ac 2222 1222 - 2224 - 3344 3335 1122 - - - 1123 2222 2222 - 2222 - 3344 3555 2233 2223 - - 1111				1											
2234 2222 1224 2222	Variety	Mdh-1	Mdh-2	- 1	Idh-1	Pgi-1	Aps-1	Got-1	Got-2	Pgm-1	Pgm-2	Dia-1	Prx-1	Prx-3	Adh-1
2234 2222 1222 2224 3344 3335 1122 2222 1123 1224 2222 2222 2222 3344 3555 2233 2223 1111															
1224 2222 2222 3344 3555 2233 2223	Norchip	2234	2222	1222	ŧ	2224	ł	3344	3335	1122	2222	ı	ŀ	1123	i
	FL 1922	1224	2222	2222	ŀ	2222	1	3344	3555	2233	2223	ŀ	I	7	
														- -	ا!

Source of Data: Dr. David Douches, Michigan State University, 1995 & 1998

Procedures and allelic designations used are according to Douches, D.S. and K. Ludlam. 1991. Electrophoretic Characterization of North American Potato Cultivars. Am. Potato J. 68:767-780.

FL 1922 - these tubers were grown at Paramount Farms

Date: 15 October 01

#200200126

Tuber Meast	urements		
Length (mm)	Width (mm)	Depth (mm)	C=Compressed tuber
63	60	52	
82	68	57	***
87	74	60	
75	60	50	- 110
66	57	49	
73	66	53	
87	73	56	
69	66	64	
83	71	52	
80	71	56	
84	71	59	
63	66	54	С
63	. 56	45	
65	54	52	
69	57	57	
68	64	54	
67	55	50 ,	
78	70	58	
66	52	45	
64	56	48	
57	61	51	С
54	54	45	
78	73	63	
74	63	51	
73	61	44	
62	54	49	
55	60	57	С
69	65	53	
73	56	53	
63	60	51	
64	60	51	
64	62	50	
59	64	54	C
55	61	51	
64	67	60	С
75	72	64	
62	64	55	С
75	56	50	
72	64	55	
62	57	50	
69	60	52	,
63	61	54	
78	. 72	51	
66 ·	56	51	
60	61	56	C
56	54	50	
54	57	52	С
66	64	53	

Length:	60.40	Maria	07
Mean	69.40	Max	97
STD	9.21	Min	54
Width:			
Mean	61.93	Max	74
STD	6.06	Min	49
Depth:			
Mean	53.39	Max	65
STD	4.90	Min	42

Date: 15 October 01

Tuber Measurements

essed tuber

Length (mm)	Width (mm)	Depth (mm)	C=Compre
65	57	50	T
62	59	48	
54	57	51	С
63	66	55	C
69	53	49	
55	58	49	С
63	58	42	
72	56	49	
78	67	50	
73	68	55	
66	54	46	
54	56	52	С
66	65	55	
74	68	63	
78	58	51	
97	72	61	
73	72	61	
88	61	57	
86	72	62	
75	58	46) ======
77	71	61	
68	58	50	
77	64	54	
57	61	54	С
87	68	64	
85	66	50	
69	63	55	
66	55	57	
69	66	64	
66	61	52	
84	74	61	
87	74	65	
75	63	56	
72	62	53	
75	71	61	
75	53	52	
55	59	55	С
66	58	54	
73	57	51	
73	66	52	
66	57	52	
59	56	53	
56	49	49	
69	60	54	
73	60	50	
67	61	50	
73	57	52	
69	58	50	

FL 1922 - these tubers were grown at Paramount Farms

Date: 15 October 01

#200200126

59 64 52 C 66 57 50 64 55 49	Length (mm)	Width (mm)	Depth (mm)	C=Compre	ssed tuber
	59	, 64	52	С	
64 55 49	66	57	50		1
	64	55	49		
78 68 58	78	68	58	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Norchip - these tubers were grown at Paramount Farms Date: 15 October 01

#200200126

Tuber Measur	rements	
Length (mm)	Width (mm)	Depth (mm)
104	89	63
90	81	57
75	62	47
84	60	52
92	85	55
87	68	57
87	71	52
80	72	54
78	81	53
84	68	57
84	68	57
81	66	42
69	65	50
64	54	46
87	83	64
114	81	66
74	72	59
70	59	49
67	64	50
60	63	47
78	57	50
76	66	22
78	72	57
95	74	60
66	61	50
66	64	52
62	64	51
57	68	50
73	74	52
70	58	44
56	66	43
87	64	52
80	71	64
70	61	49
75	63	50
74	64	46
78	75	59
87	72	57
67	76	62
85	72	60
79	54	44
63	52	43
65	58	48
66	60	50
66	52	42
74	64	50
74	59	52
66	61	50
00	ŲΙ	JU

Length:				
Mean		73.43	Max	114
STD		12.25	Min	51
Width:				
Mean	÷	65.49	Max	89
STD		7.84	Min	52
Depth:			•	
Mean		51.09	Max	66
STD	1	6.39	Min	22

Norchip - these tubers were grown at Paramount Farms Date: 15 October 01

Tuber Measur	ements	
Length (mm)	Width (mm)	Depth (mm
70	70	53
68	54	43
83	67	64
63	58	44
55	65	45
55	57	44
66	56	46
62	58	46
55	54	42
57	63	47
55	54	45
69	64	51
61	55	46
52	56	42
51	55	43
55	57	51
56	64	49
56	56	44
87	67	54
78	74	54
94	76	56
114	66	50
78	68	54
77	72	53
75	71	53
87	67	55
75	64	52
72	62	53
77	71	50
74	67	56
87	72	60
63	70	53
71	65	50
63	58	44
64	61	48
63	57	49
66	65	53
69	54	44
75	70	52
77	68	47
66	65	46
69	58	49
72	63	54
79	58	50
78	68	
78	73	54
86	74	60 55
73		55
13	71	54

Norchip - these tubers were grown at Paramount Farms Date: 15 October 01

Length (mm)	Width (mm)	Depth (mm)
84	72	56
69	61	52
84	80	58
66	64	50

replaced 4/20/05

REPRODUCE LOCALLY, Include form number and edition date on all	reproductions. F	ORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued	421). The information is held
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Frito I ov Noval A	OR EXPERIMENTAL NUMBER	
Frito-Lay North America, Inc. Zhilos Agar	1989 84.13	FL 1922
4. ADDRESS (Street and No., or R.F.D. Ne., City, State, and ZIP, and Country)	5. TELEPHONE (Inscurde area code)	6. FAX sunctude area code:
7701 Legacy Drive		
Plano, Texas 75024	(972)334–3822	(972)334–5965
1 lano, 1 chas 1502 l	7. PVPO NUMBER	. 4 . 0
2/11/02 mass 2	#20020	0 1 2 6
9. Is the applicant (individual or company) a U.S. National or a U.S. t	based company? If no, give name of c	ountry X YES NO
10. Is the applicant the original owner? Ty YES NO	If no, please answer one of the fo	
10. 13 the applicant the original owners X 123	in Iro, please answer <u>one</u> of the fol	ilowing:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(e) a LLS. Nation	al/a\2
and the engine to reality from the organization, is		ai(5):
☐ YES ☐ NO	If no, give name of country	
to the state of th		
 b. If the original rights to variety were owned by a company(ies) 	i, is (are) the original owner(s) a U.S. ba	sed company?
YES NO	If no, give name of country	
11. Additional explanation on ownership (If needed, use the reverse		
	• •	-
Breeders employed by Frito-Lay, Inc. de between Frito-Lay and its employees, al made by the employees while employed by with no ownership rights of any kind re	l rights to inventions a Frito-Lay, Inc. are ass	signed to Recot, Inc.,
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that penaltional of a country which affords similar protection to nationals or	erson must be a U.S. national, national f the U.S. for the same genus and speci	of a UPOV member country, or es.
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a o genus and species.	yed the original breeder(s), the company country which affords similar protection	must be U.S. based, owned by to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	neet one of the above criteria.
The original breeder/owner may be the individual or company who did Act for definitions.		

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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State of Delaware Secretary of State Division of Corporations Delivered 05:24 PM 01/15/2004 FILED 05:24 PM 01/15/2004 SRV 040033329 - 2202650 FILE

STATE OF DELAWARE CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION

Recot, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware.

DOES HEREBY CERTIFY:

FIRST: The Board of Directors of Recot, Inc. has duly adopted a resolution setting forth a proposed amendment of the Certificate of Incorporation of said corporation, declaring said amendment to be advisable. The resolution setting forth the proposed amendment is as follows:

RESOLVED, that the Certificate of Incorporation of this corporation be amended by changing the Article thereof numbered "ARTICLE ONE" so that, as amended, said Article shall be and read as follows:

The name of the corporation is FRITO-LAY NORTH AMERICA, INC.

SECOND: That said amendment was duly adopted in accordance with the provisions of Section 242 of the General Corporation Law of the State of Delaware.

THIRD: That the capital of said corporation shall not be reduced under or by reason of said amendment.

FOURTH: That this name change shall be effective December 29, 2003, for accounting purposes only.

FIFTH: That the Principal Administrative Office for Frito-Lay North America, Inc. shall be located at 7701 Legacy Drive, Plano, Texas 75024.

IN WITNESS WHEREOF, said Recot, Inc. has caused this certificate to be signed by Kelly Mahon Tullier, an Authorized Officer, this 20th day of January, 2004.

Title: Vice President and Treasurer

horized Officer

Name: Kelly Mahon Tullier

Form Approved OMB NO 0581-0055
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

	DECERCATION REGARDING DEPOSIT	
NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Frito Lay North America, Inc.	7701 Legacy Drive	1989 84.13
•	Plano, TX 75024	VARIETY NAME FL 1922
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY
Robert W. Hoopes	7701 Legacy Drive Plano, TX 75024	#200020126

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.